

## **NOVA** is the Place for CS!

Communicating with computers has become an integral part of our lives. The **Computer Science** (CS) A.S. degree gives you the basic knowledge and skills to understand the structure and process of computers and also sets you up for a successful transfer to a four-year college to pursue a CS Bachelor's degree.

## **The CS Program**

Offers a solid foundation into the science of computing as well as providing valuable insight in determining your area of focus and next steps. With courses like Computer Systems, Problem Solving and Programming, or Data Structures and Analysis of Algorithms, you'll gain the knowledge and exposure to guide your future.

## **Prepare for the Future**

CS professionals are in high demand and essential to just about every modern business model. If a company relies on or produces computer technology, chances are there's an CS professional behind it all. NOVA has a growing list of four-year colleges accepting our CS A.S. degree for transfer. **Build your world in CS at NOVA today.** 

A quick guide for students choosing between Computer Science or Information Technology (IT):

**Computer Science** is about *creating* - preferable for students who like math, algorithms, and abstraction layers. **IT** is about *implementation* - good for students who enjoy more hands-on problem-solving directly with systems.







## **A.S. Degree Courses**

(Associate of Science)

Sem	ester	1	Credits:	15
CSC HIS	221	Introduction to Problem Solving and Program Elective	ming	3
MTH	167	PreCalculus with Trigonometry (2) (3)		5
ENG	111	College Composition I		3
SDV	100	College Success Skills - OR -		
SDV	101	Orientation to (a Specific Discipline)		1
Sem	ester	2	Credits:	14
CSC	222	Object Oriented Programming		4
ENG	112	College Composition II		3
MTH	263	Calculus I		4
		Humanities/Fine Arts Elective 4		3
Semester 3			Credits:	15
CSC	223	Data Structures and Analysis of Algorithms		4
CSC MTH	208 288	Introduction to Discrete Structures - OR - Discrete Mathematics		3
MTH	264	Calculus II ()		4
		Physical or Life Science Elective w/ Lab ()		4
Semester 4 Ci			redits: 16	-18
CSC	205	Computer Organization - OR -		
CSC	215	Computer Systems - OR -		
MTH	265	Calculus III		3/4
		Humanities/Fine Arts Elective 4		3
		Physical or Life Science Elective w/Lab		4 3
		Social/Behavioral Sciences Elective (1) Approved Elective (1)		ა 3/4
		Approved Liective		J/ <del>1</del>
		Total Cr	adita. GO	CO

- iotai Gredits: 60-62
- Select any HIS course listed under the social/behavioral science courses in General Education Electives.
- 🕖 If precalculus is needed, begin with MTH 167 (or MTH 161 and MTH 162). If placed out of precalculus, begin with MTH 263 and replace the precalculus credits with two electives from footnote #3 that total five credits or more.
- May choose from the following list: CSC 205, CSC 208, CSC 215, MTH 265, MTH 266, MTH 288, PHY 201 or any science listed on footnote #6 and #7. Students should consult a faculty advisor and their transfer institution to select appropriate courses.
- 4 See humanities/fine arts courses listed under General Education Electives.
- MTH 245 may be used for this requirement if the student's transfer institution requires it.
- O Physical and life science elective must be selected from the following: BIO 101, CHM 111, PHY 241, GOL 105, or GOL 106.
- Physical and life science elective must be selected from the following: BIO 102, CHM 112, PHY 242, GOL 105, or GOL 106.
- 8 See social/behavioral science courses listed under General Education Electives.
- Approved elective courses: PHY 201, CSC 205, CSC 215, EGR 121, EGR 122, EGR 270, CST 100, CST 110, MTH 265, MTH 266, or MTH 283. Any science listed on footnote #6 and #7.







MASON ADVANCE APPROVED PATHWAY